CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/JCR/Consultants/48/2018-19

Dated: 08.05.2018

To,
Executive Engineer,
Dasarahalli Division,
BBMP, Bangalore.

Sir,

Sub: **Consultancy Services for the work of Improvements to drain at Sheshadri Layout at Bagalagunte in Ward No.14, BBMP, Bangalore**

Ref: 1) EE/DD/WO/208/17-18 Date: 23.01.2018
2) Job Code : 014-18-000016

We are herewith forwarding to **Mr. J.C Ramachandra,** 1st and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs. 50,20,471 (Rupees Fifty Lakhs Twenty Thousand Four Hundred and Seventy One only) for further needful.

Thanking you,

Civil-Tech Consultants & Engineers Bangalore

Yours faithfully,
For Civil-Tech Consultants and Engineers

8.5.2018
Chief Executive Officer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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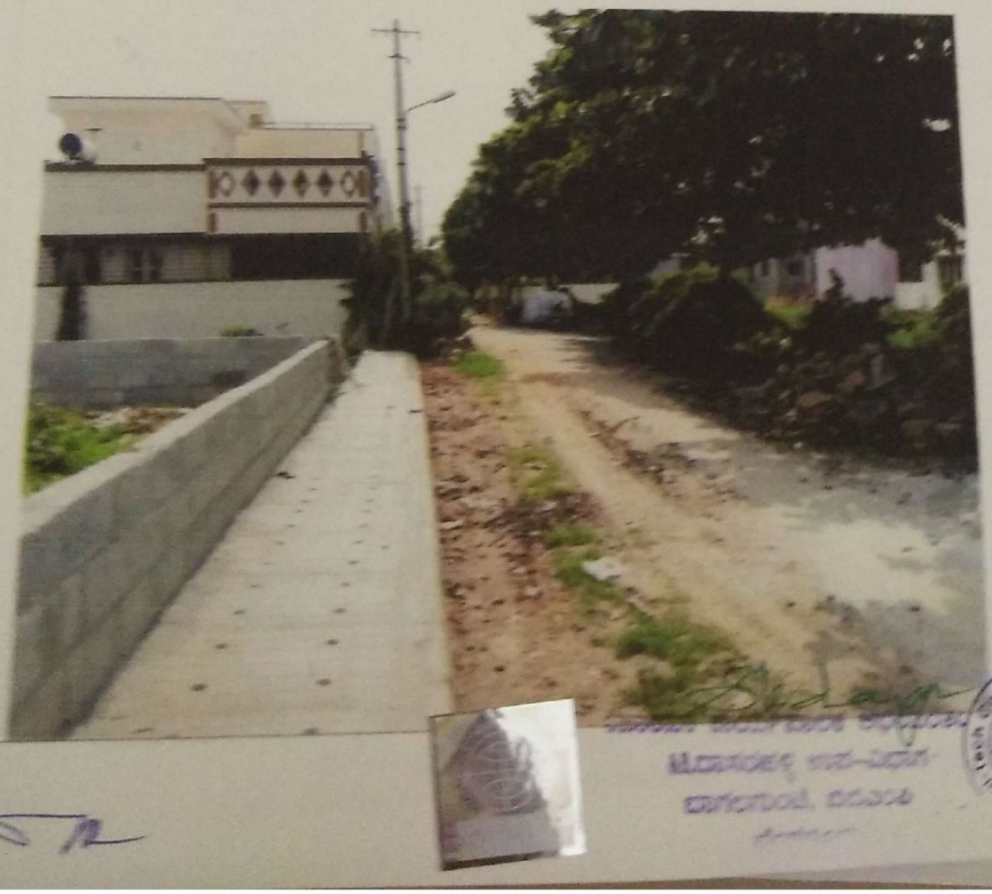
tograph was taken at the time of Inspection (07.05.2018) Improvements to drain at Sheshadri Layout at Bagalagunte in Ward No.14, BBMP, Bangalore



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Building & Highway Material Testing Laboratory

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T-2377

Job No.: CTCE/BBMP/JCRC/W.No.14/CSR-02/56M/CEMENT/2017-18 Date: 08.02.2018

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. J.C. Ramachandra,** #59, 5th D Main Road, 10th C Cross, West of chord Road, Mahalakshmipuram, Bangalore – 560 086.
* Name of Work	:	Improvements to drain at Sheshadri Layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/208/2017-18 Dated: 06.02.2018
* Sample ID	:	Cement
Sample Received on	:	06.02.2018
Period of Testing	:	06.02.2018 to 08.02.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.50 %	
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Civil Tech Consultants & Engineers Bangalore

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

VIDYARANI P.K.
Technical Manager

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T-2377

b No.: CTCE/BBMP/JCRC/W.No.14/CSR-02/563d/SAND-Gradation/2017-18 08.02.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. J.C. Ramachandra,** #59, 5th D Main Road, 10th C Cross, West of chord Road, Mahalakshmipuram, Bangalore – 560 086.
* Name of Work	: Improvements to drain at Sheshadri Layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/208/2017-18 Dated: 06.02.2018
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 06.02.2018
Date of Testing	: 08.02.2018

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.00	90-100	90-100	90-100	95-100
2.36	79.00	60-95	75-100	85-100	95-100
1.18	57.50	30-70	55-90	75-100	90-100
600 Micron	37.60	15-34	35-59	60-79	80-100
300 Micron	17.60	5-20	8-30	12-40	15-50
150 Micron	5.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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VIDYARANI P.K.
Technical Manager

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
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T-2377

Lab No.: CTCE/BBMP/JCRC/W.No.14/CSR-02/563d/AGG/GR/2017-18 08.02.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	Mr. J.C. Ramachandra, #59, 5th D Main Road, 10th C Cross, West of chord Road, Mahalakshmipuram, Bangalore – 560 086.
* Name of Work	:	Improvements to drain at Sheshadri Layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/208/2017-18 Dated: 06.02.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	06.02.2018
Date of Testing	:	08.02.2018

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.70	95-100	85-100
20	41.70	30-70	0-20
10	22.70	10-35	0-5
4.75	4.70	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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VIDYARANI P.K.
Technical Manager

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Lab No.: CTCE/BBMP/JCRC/W.No.14/Steel/2017-18 09.02.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	Mr. J.C. Ramachandra, #59, 5th D Main Road, 10th C Cross, West of chord Road, Mahalakshmipuram, Bangalore – 560 086.
* Name of work	:	Improvements to drain at Sheshadri Layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/208/2017-18 Dated: 06.02.2018
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	09.02.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	510	551	13.1	O.K	O.K

*Information is furnished by the Customer/Representative.

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Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.

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Lab No.: CTCE/BBMP/JCRC/W.No.14/Steel/2017-18 09.02.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. J.C. Ramachandra,** #59, 5th D Main Road, 10th C Cross, West of chord Road, Mahalakshmipuram, Bangalore – 560 086.
* Name of work	:	Improvements to drain at Sheshadri Layout at Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/208/2017-18 Dated: 06.02.2018
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	09.02.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	510	551	13.1	O.K	O.K

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